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disposing insulating members around said straight portions of said winding portions; and
inserting said polyphase stator winding into said slots of said stator core so as to
alternately occupy an inner layer and an outer layer in a slot depth direction of said slots at
intervals of a predetermined number of slots, said turn portions folding back outside said slots at
axial end surfaces of said stator core, and said insulating member being interposed between said
stator core and said polyphase stator winding.

12. A method for manufacturing a stator of an alternator, the stator comprising a
stator core and a polyphase stator winding, wherein said stator core includes a plurality of slots
extending axially at a predetermined pitch, the method comprising:

forming said polyphase stator winding by bending a plurality of long wire strands to form
a plurality of winding portions having straight portions and turn portions;

inserting a plurality of insulating members into said slots of said stator core; and

inserting said polyphase stator winding into said slots of said stator core so as alternately
occupy an inner layer and an outer layer in a slot depth direction of said slots at intervals of a
predetermined number of slots, said turn portions folding back outside said slots at axial end
surfaces of said stator core, and said insulating members being interposed between said stator
core and said polyphase stator winding.

AMENDMENT UNDER 37 C.F.R. § 1.111
U.S. Patent Application No. 09/978,548

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13. A method for manufacturing a stator of an alternator, the stator comprising a stator core and a polyphase stator winding, wherein said stator core includes a plurality of slots extending axially at a predetermined pitch, the method comprising:

forming said polyphase stator winding by bending a plurality of long wire strands to form a plurality of winding portions having straight portions and turn portions;

disposing a straight base insulating member over an opening portion of said slots of said stator core;

inserting said polyphase stator winding into said slots of said stator core with said straight base insulating member being interposed between said stator core and said polyphase stator winding, wherein inserting said polyphase winding into said slots causes said base insulating member to be inserted into said slots, said polyphase stator winding alternately occupying an inner layer and an outer layer in a slot depth direction of said slots at intervals of a predetermined number of slots, said turn portions folding back outside said slots at axial end surfaces of said stator core; and

dividing said base insulating member at portions of said base insulating member which extend outside of said slots to form a plurality of insulating members disposed in said slots between said polyphase stator winding and said stator core.

14. The method according to claim 13, wherein said base insulating member is divided by removing said portions of said base insulating member which extend outside of said slots.

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15. The method according to claim 13, wherein said base insulating member is divided by an insertion force of said winding as said winding is inserted into said slots.

16. The method according to claim 13, wherein said base insulating member is divided during inner circumferential dimension processing of said stator core.

17. The method according to claim 13, further comprising securing said portions of said base insulating member which extend outside of said slots to said stator core with resin before dividing said base insulating member.

18. The method according to claim 13, wherein said base insulating member is divided by pressing end portions of teeth defining said slots to plastically deform said end portions of said teeth.

19. The method according to claim 11, wherein said insulating member is made of insulating paper or resin.

20. The method according to claim 12, wherein said insulating member is made of insulating paper or resin.

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21. The method according to claim 13, wherein said insulating member is made of
insulating paper or resin.
